



# Evaluation and Testing of Spectrometric Border Monitoring Equipment

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- **Grant Holder position since March 16, 2011 (JRC ITU)**
- **Description of the tasks:**
  - develop an appropriate test program
  - carry out the tests of the spectroscopic portals and the border monitoring equipment
  - perform the interpretation of the results
  - the development and optimization of a training program for frontline officers using such equipment
  - developing appropriate training modules, by providing lectures and by supervising practical exercises





## Enhancing nuclear security

**Why:** EU's radiological vulnerability identified the need to train first responders at the European level as a priority

**Who:** Commission's Joint Research Centre (JRC) was tasked by the Directorate General for Home Affairs to create a European nuclear security training centre (EUSECTRA)

**Where:** Physically EUSECTRA will be located at JRC ITU

# Foundations for the EUSECTRA

- Action RN. 21:  
The Member States and the Commission should develop an adequate and sustainable training programme at EU level for front line officers. The EUSECTRA can play an important part in this process.
- Action RN.24  
The Member States together with the Commission are encouraged to use the capacity of the planned European Security Training Centre (EUSECTRA) to provide nuclear and radiological security related training and to support and complement such activities at the national level.



## Aim of the EUSECTRA project:

Creation of a European Radiological/Nuclear Security Training Programme for the Law Enforcement Community

- Providing hands-on training on the process of detecting radioactive/nuclear materials and the use of various types of detection equipment at various simulated locations
- Providing hands-on training on responding to incidents in which radioactive/nuclear materials have been detected or used



## EUSECTRA foundations

- Development of a training programme/methodology concerning the detection and response to illicit trafficking events
- Use of nuclear materials for trainings
- Enhance cross-border cooperation and networking through joint training sessions with national contributions
- Development of a framework for assistance to member states in the field of nuclear forensics with central role of JRC/ITU
- Platform for national experts to exchange best practices and to contribute to the development of harmonized (EU) procedures in the area of detection and response to nuclear security incidents.

## EUSECTRA foundations con'd

- Establishment of an EU-network of core capabilities in Members States involving MS experts and know-how
- Sustainable and evolving training capacity building
- Over three decades the JRC has built up significant experience in measuring and controlling nuclear material through its involvement in the safeguards area (more than 30 years of experience in providing nuclear safeguards courses to inspectors).



# Concept of the EUSECTRA

## □ Training Centre

- In line with the CBRN Action Plan
- Building on existing programs
- Benefit from available expertise and premises at JRC
- Availability of Nuclear materials
- Forensics expertise
- Feedback from cooperative projects
- International collaboration (IAEA, etc...)

EUSECTRA will cover SECURITY and SAFEGUARD training activities  
(integration process between nuclear security and safeguards)

EUSECTRA is embedded in the Euratom School



# Concept of the EUSECTRA

## □ Training Courses

Target audiences:

- Front Line Officers
- Trainers/future trainers
- Experts
- Management/Decision Makers
- **Safeguard inspectors**





# Concept of the EUSECTRA

## □ Training Courses (Cont'd)

Subjects:

- Detection at borders/nodal points
- Train the Trainers
- Mobile Expert Support Teams
- Reach back
- Response plans
- Nuclear Forensics
- Management of radiological Crime scene
- Nuclear security awareness for management
- Sustainability & Maintenance issues
- **Nuclear safeguard trainings and non proliferation issues**





# Conclusions and outcomes

The EUSECTRA gets its foundations on

- Development of a training programme/methodology concerning the detection and response to illicit trafficking events.
- Enhance cross-border cooperation and networking through joint training sessions with national contributions
- Development of a framework for assistance to member states in the field of nuclear forensics with central role of JRC/ITU
- Establishment of an EU-network of core capabilities in Members States involving MS experts and know-how.
- Possibility to handle confidentiality issues. EUSECTRA would be the central point of information and expertise exchange
- Providing an harmonized and integrated EU response to illicit trafficking of NRM and networking of expert organizations among the MS
- Centralized Knowledge Management tool for the EC and the MS
- Sustainable and evolving training capacity building

EU-SECTRA will become the platform for EU detection/response exchange



THANK YOU FOR YOUR ATTENTION!

